

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A hydrogen storage material comprising magnesium hydride, wherein the magnesium hydride is stabilized in ~~the~~ a fluorite crystal structure.
2. (Currently Amended) A ~~The~~ hydrogen storage material according to claim 1, ~~characterized in that~~ wherein the magnesium is at least partly substituted by an element such that the magnesium hydride is stabilized in the fluorite structure.
3. (Currently Amended) A ~~The~~ hydrogen storage material as claimed in claim 2, ~~characterized in that~~ wherein the element comprises an ion with a size that is similar to the size of Mg^{2+} in a VIII coordination.
4. (Currently Amended) A ~~The~~ hydrogen storage material as claimed in claim 2, ~~characterized in that~~ wherein the element comprises an ion with a radius in the range of 0.090-1.120 nm.
5. (Currently Amended) A ~~The~~ hydrogen storage material as claimed in claim 2, ~~characterized in that~~ wherein the element comprises an

ion selected from the group ~~comprising~~ consisting of Sc^{3+} , Ti^{3+} , RE^{3+} (Rare Earth elements), Y^{3+} , Li^{+} , Zn^{2+} , Co^{2+} , Fe^{2+} , Mn^{2+} , In^{3+} , Zr^{4+} , and Hf^{4+} .

6. (Currently Amended) A ~~The~~ hydrogen storage material as claimed in claim 1, characterized in that it wherein the hydrogen storage material comprises an amount of a catalytically active material.

7. (Currently Amended) A ~~The~~ hydrogen storage material as claimed in claim 1, characterized in that claim 6, wherein the catalytically active material comprises at least one metal selected from the group consisting of Ir, Ni, Pd, Pt, Rh, and Ru.

8. (Currently Amended) A ~~The~~ hydrogen storage material as claimed in claim 1, characterized in that claim 6, wherein the catalytically active material comprises palladium or rhodium.

9. (Currently Amended) An ~~electrochemically active material, characterized in that~~ wherein the material comprises a hydrogen storage material as claimed in claim 1.

10. (Currently Amended) An ~~electrochemical cell at least comprising a positive electrode and a negative electrode, characterized in that~~ wherein the negative electrode comprises a hydrogen storage material as claimed in claim 1.

11. (Currently Amended) Electronic equipment powered by at least

one electrochemical cell, ~~characterized in that~~wherein the at least
one electrochemical cell is an electrochemical cell as claimed in
claim 10.